

ABSTRACT OF THE DISCLOSURE

An infrared imaging device combines two sensors, each sensor sensitive to a
5 different spectral range of infrared radiation. Both sensors are combined in a single
camera sharing one of three common optical apertures, thus parallax is eliminated
between the sensors. Further, a display device is aligned along an optical axis in
common with the camera eliminating parallax between the display and camera. Images
from the first sensor, the second sensor, or both sensors may be viewed optically
10 and/or electronically. The device is handheld, or mountable on a headgear such as a
helmet. When mounted on headgear, the display is viewable by directing the operator's
gaze upward, thus the display does not interfere with an operator's straight and
downward sight. The image can be sent to a remote display by a wireless transceiver,
and waterproof, fireproof, vibration/impact resistance, and hot/cold weather resistance
are achieved using a high strength plastic enclosure with foam insert.